## Dr. Eva C. Herbst

## PEER-REVIEWED PUBLICATIONS \* DENOTES CO FIRST AUTHOR

- Moroder P, **Herbst EC**, Pawelke J, Lappen S, Schulz E. Large variability in the degree of constraint of reverse total shoulder arthroplasty liners between different implant systems. Accepted for publication in Bone & Joint Open.
- Webb NM, Fornai C, Krenn VA, Watson LM, Herbst EC, Haeusler M. Gradual exacerbation of obstetric constraints during hominoid evolution implied by re-evaluation of cephalopelvic fit in chimpanzees. Accepted for publication in Nature Ecology & Evolution.
- Akguen D, Gebauer H, Paksoy A, Schafer F, **Herbst EC**, Karczewski D, Pastor MF, Moroder P. Patients with constitutional static posterior shoulder instability (Type C1) show significant differences in osseous shoulder morphology, scapulothoracic orientation, and muscle volume compared to healthy controls. Am. J. Sports Medicine.
- Merten LJF, Manafzadeh AR, **Herbst EC**, Amson E, Tambusso PS, Arnold P, Nyakatura JA. The functional significance of aberrant cervical counts in sloths: insights from automated exhaustive analysis of cervical range of motion. *Proc. R. Soc. B.*
- Herbst EC\*, Evans LA\*, Felder AA, Javaheri B and Pitsillides AA. 3D profiling of mouse epiphyses across ages reveals new potential imaging biomarkers of early spontaneous osteoarthritis. *J. Anat*
- Demuth OE, **Herbst EC**, Polet DT, Wiseman ALA, Hutchinson JR. Modern three-dimensional digital methods for studying locomotor biomechanics in tetrapods. *J. Experimental Bio*.
- Herbst EC, Lautenschlager S, Fioritti N, Meade L, Scheyer TM. A toolbox for the retrodeformation and muscle reconstruction of fossil specimens in Blender. *Royal Society Open Science*
- Herbst EC, Eberhard E, Richards C, Hutchinson JR. In vivo and ex vivo range of motion in the fire salamander Salamandra salamandra. *J. Anat.*
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- Ortega-Jimenez VM, **Herbst EC**, Leung MS, and Dudley R. Natural barriers: waterfall transit by small flying animals. *Royal Society Open Science* 7201185
- Herbst EC, Doube M, Smithson TR, Clack J, and Hutchinson JR. Bony lesions in early tetrapods and the evolution of mineralized tissue repair. *Paleobiology* 45(4)
- Herbst EC and Hutchinson JR. New insights into the morphology of the Carboniferous tetrapod Crassigyrinus scoticus from CT. *Earth Environ. Sci. Trans. R. Soc. Edinb.* 109(1-2)